PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF US 40 AND ROBIN HOOD ROAD IN HARFORD COUNTY, US 40 IS ASSUMED TO RUN IN A EAST-WEST DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULL-TRAFFIC-ACTUATED MODE WITH AN EXCLUSIVE LEFT TURN PHASE FOR EASTBOUND US 40. VIDEO DETECTION WILL BE USED.

THIS SIGNAL IS INTERCONNECTED WITH THE EXISTING TRAFFIC SIGNAL AT US 40 AND MD 132.

CONTROLLER REQUIREMENTS

INSTALL A FULL-TRAFFIC-ACTUATED, EIGHT-PHASE CONTROLLER WITH SYSTEM PACKAGE. ONE (1), FOUR-CHANNEL, TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER AND VIDEO DETECTION INTERFACE EQUIPMENT HOUSED IN A NEMA "6" BASE MOUNTED CABINET.

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE MSHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE LINE INSTALLATION. THE CONTRACTOR MUST PROVIDE MR. SNYDER WITH THE NEAREST ADDRESS, ZIP CODE, AND PHONE NUMBER.

WIRING DIAGRAM - A,B,C,D,E,I,J,K,L,M,N,O /— A,B,C,D,E,J,K,L,M,N,O H,M,N — — A,B,M,N,O ___ C,D,E,J,K,L,O L--____ E,G,K,L

WIRING KEY

EXISTING MICRO-LOOP PROBE LEAD-IN 2-CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) VIDEO DETECTION CABLE 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) INTERCONNECT CABLE 7-CONDUCTOR ELECTRICAL CABLE

STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
1-CONDUCTOR ELECTRICAL CABLE

PROPOSED ELECTRIC SERVICE GROUND ROD

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

ITEM NO. **DESCRIPTION** QUANTITY

NONE

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR, ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUAI	NTITY	DESCRIPTION
Į	LS	MAINTENANCE OF TRAFFIC
3 (CY	TEST PIT EXCAVATION
35 l	LF	FURNISH AND INSTALL 24 IN WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKING
2	EA	FURNISH AND INSTALL 300 FT. VIDEO DETECTION CABLE
2 8	EA ·	ADJUST EXISTING HANDHOLE TO FINAL GRADE
26 E	EA	FURNISH AND INSTALL 12 IN VEHICULAR SIGNAL HEAD SECTION
1 E	EA ,	FURNISH AND INSTALL 15 FT. STREET LIGHTING ARM
1 E	E A	FURNISH AND INSTALL 250 WATT HPSV LUMINAIRE
1 8	ĒΑ	FURNISH AND INSTALL CONTROL AND DISTRIBUTION EQUIPMENT
1 8	EA	FURNISH AND INSTALL 50 FT. MAST ARM AND POLE
1 8	EA	FURNISH AND INSTALL 50 FT./60 FT. TWIN MAST ARMS AND POLE
L	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
2 8	EA	FURNISH AND INSTALL VIDEO DETECTION CAMERA
1 8	EA "	FURNISH AND INSTALL VIDEO INTERFACE EQUIPMENT
70 l	LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
250	LF	FURNISH AND INSTALL 4 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - BORED
30 l	LF	FURNISH AND INSTALL 4 IN SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT - TRENCHED
10 (CY	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
440 l	LF	FURNISH AND INSTALL NO. 6 AWG STRANDED BARE COPPER WIRE
1 8	EA	FURNISH AND INSTALL METERED SERVICE PEDESTAL
100 l	LF	FURNISH AND INSTALL ELECTRICAL CABLE 1-CONDUCTOR (NO. 4 A.W.G.)
3 6	EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
6 8	EA	FURNISH AND INSTALL GROUND ROD 3/4 IN. DIAMETER X 10 FT. LENGTH
80 L	LF	FURNISH AND INSTALL ELECTRICAL CABLE 5-CONDUCTOR (NO. 14 A.W.G.)
1500	LF	FURNISH AND INSTALL ELECTRICAL CABLE 7-CONDUCTOR (NO. 14 A.W.G.)
250 l	LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (NO. 12 A.W.G.) - TRAY CABLE
1 1	EA	FURNISH AND INSTALL BASE MOUNTED CABINET AND CONTROLLER
1 9	EA	FURNISH AND INSTALL 4-CHANNEL, TIME-DELAY-OUTPUT, LOOP DETECTOR AMPLIFIER
2 8	EA	FURNISH AND INSTALL D3-2 DUAL FACE SIGN (VAR. X 16") - MAST ARM MOUNT
. 18	EA	FURNISH AND INSTALL M95-1/D3-2 SIGN (72" X 40") - MAST ARM MOUNT
350 l		REMOVE AND REINSTALL EXISTING CABLE
525 l		FURNISH AND INSTALL 12 PAIR VOICE GRADE INTERCONNECT CABLE
25 l 1 E	LF EA	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT -TRENCHED CUT, CLEAN, GALVANIZE AND CAP MAST ARM POLE
		FURNISH AND INSTALL R10-11a SIGN (24"X30") MAST ARM MOUNT

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANOVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO. QUANTITY

DESCRIPTION

NONE

NOTE:

SHA FORCES SHALL REMOVE THE CONTROLLER AND ALL ASSOCIATED EQUIPMENT FROM THE CONTROLLER CABINET. THE CABINET AND ALL OTHER MATERIALS TO BE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR.

CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MR. RANDALL SCOTT ASSISTANT DISTRICT ENGINEER - TRAFFIC MR. STEVE MARCISZEWSKI ASSISTANT DISTRICT ENGINEER - MAINTENANCE

(410) 321-2761

(410) 321-2781 MR. PASQUARELLO

ASSISTANT DISTRICT ENGINEER - UTILITIES (410) 321-2841

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS

(410) 787-7630 MR. ROBERT SNYDER

(410) 787-7676 MS. DARLENE EIDE

ASSISTANT DIVISION CHIEF, TRAFFIC OPERATIONS (410) 787-7631

SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

PHASING CHART



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PHASE 1 & 6	← G-	+ G−	G	G	R	R	R	R G- >	J. J.
1 & 6 CHANGE	◆ Y	← Y	Υ	Υ	R	R	R	R —Y→	
PHASE 2 & 6	← R	- ₽ +	G	G	G	G	R	R	-
2 & 6 CHANGE	4 -R	← R	Υ	Υ	Υ	Υ	R	R	
PHASE 4	← R	← R	R	R	R	R	G	G	
4 CHANGE	 ₩	→ R	R	R	R	R	Υ	Y	! .
FLASHING OPERATION	FLR	FLR	FLY	FLY	FLY	FLY	FLR	FLR	

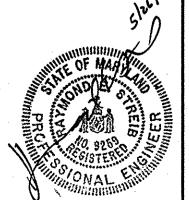


STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION

OFFICE OF TRAFFIC & SAFETY
TRAFFIC ENGINEERING DESIGN DIVISION GENERAL INFORMATION PLAN

US 40 AND ROBIN HOOD ROAD

CONTRACT NO. BW996M82 SCALE NONE DATE 5-22-06 COUNTY T.I.M.S. NO. TOD NO. DRAWING NO. TS-1183F GI SHEET NO. 3 OF 3



TRAFFIC CONCEPTS, INC. 325 Gambrills Road

Suite E Gambrills, MD 21054 (410) 923-7101 FAX (410) 923-6473

EMAIL TRAFFIC.CONCEPTS@COMCAST.NET